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Certified Security Professional in Artificial Intelligence

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SISA CSPAI Exam Syllabus Topics:

Topic	Details
Topic 1	• Evolution of Gen AI and Its Impact: This section of the exam measures skills of the AI Security Analyst and covers how generative AI has evolved over time and the implications of this evolution for cybersecurity. It focuses on understanding the broader impact of Gen AI technologies on security operations, threat landscapes, and risk management strategies.

Topic 2	• Securing AI Models and Data: This section of the exam measures skills of the Cybersecurity Risk Manager and focuses on the protection of AI models and the data they consume or generate. Topics include adversarial attacks, data poisoning, model theft, and encryption techniques that help secure the AI lifecycle.
Topic 3	• Improving SDLC Efficiency Using Gen AI: This section of the exam measures skills of the AI Security Analyst and explores how generative AI can be used to streamline the software development life cycle. It emphasizes using AI for code generation, vulnerability identification, and faster remediation, all while ensuring secure development practices.

SISA Certified Security Professional in Artificial Intelligence Sample Questions (Q36-Q41):

NEW QUESTION # 36
For effective AI risk management, which measure is crucial when dealing with penetration testing and supply chain security?

- A. Implement penetration testing only for high-risk components and ignore less critical ones
- B. Conduct comprehensive penetration testing and continuously evaluate both internal systems and third- party components in the supply chain.
- C. Perform occasional penetration testing and only address vulnerabilities in the internal network.
- D. Prioritize external audits over internal penetration testing to assess supply chain security.

Answer: B

Explanation:
Effective AI risk management requires comprehensive penetration testing and continuous evaluation of both internal and third-party supply chain components to identify vulnerabilities like backdoors or weak APIs. This holistic approach, aligned with SISA risk models, ensures robust security across the AI ecosystem, unlike limited or external-only testing. Exact extract: "Comprehensive penetration testing and continuous evaluation of internal and third-party components are crucial for AI risk management." (Reference: Cyber Security for AI by SISA Study Guide, Section on AI Risk Assessment Models, Page 180-183).

NEW QUESTION # 37
In the Retrieval-Augmented Generation (RAG) framework, which of the following is the most critical factor for improving factual consistency in generated outputs?

- A. Fine-tuning the generative model with synthetic datasets generated from the retrieved documents
- B. Implementing a redundancy check by comparing the outputs from different retrieval modules.
- C. Tuning the retrieval model to prioritize documents with the highest semantic similarity
- D. Utilising an ensemble of multiple LLMs to cross-check the generated outputs.

Answer: C

Explanation:
The Retrieval-Augmented Generation (RAG) framework enhances generative models by incorporating external knowledge retrieval to ground outputs in factual data, thereby improving consistency and reducing hallucinations. The critical factor lies in optimizing the retrieval component to select documents with maximal semantic relevance, often using techniques like dense vector embeddings (e.g., via BERT or similar encoders) and similarity metrics such as cosine similarity. This ensures that the generator receives contextually precise information, minimizing irrelevant or misleading inputs that could lead to inconsistent outputs. For instance, in question-answering systems, prioritizing high-similarity documents allows the model to reference verified sources directly, boosting accuracy. Other approaches, like ensembles or redundancy checks, are supplementary but less foundational than effective retrieval tuning, which directly impacts the quality of augmented context. In SDLC, integrating RAG with fine-tuned retrieval accelerates development cycles by enabling modular updates without full model retraining. Security benefits include tracing outputs to sources for auditability, aligning with responsible AI practices. This method scales well for large knowledge bases, making it essential for production-grade applications where factual integrity is paramount. Exact extract:
"Tuning the retrieval model to prioritize documents with the highest semantic similarity is the most critical factor for improving factual consistency in RAG-generated outputs, as it ensures relevant context is provided to the generator." (Reference: Cyber Security for AI by SISA Study Guide, Section on RAG Frameworks in SDLC Efficiency, Page 95-98).

NEW QUESTION # 38
In the context of a supply chain attack involving machine learning, which of the following is a critical component that attackers may target?

- A. The marketing materials associated with the AI product
- B. The user interface of the AI application
- C. The underlying ML model and its training data.
- D. The physical hardware running the AI system

Answer: C

Explanation:
Supply chain attacks in ML exploit vulnerabilities in the ecosystem, with the core ML model and training data being prime targets due to their foundational role in system behavior. Attackers might inject backdoors into pretrained models via compromised libraries (e.g., PyTorch or TensorFlow packages) or poison datasets during sourcing, leading to manipulated outputs or data exfiltration. This is more critical than targeting UI or hardware, as model/data compromises persist across deployments, enabling stealthy, long-term exploits like trojan attacks. Mitigation includes verifying model provenance, using secure repositories, and conducting integrity checks with hashing or digital signatures. In SISA guidelines, emphasis is on end-to-end supply chain auditing to prevent such intrusions, which could result in biased decisions or security breaches in applications like recommendation systems. Protecting these components ensures model reliability and data confidentiality, integral to AI security posture. Exact extract: "In supply chain attacks on machine learning, attackers critically target the underlying ML model and its training data to introduce persistent vulnerabilities." (Reference: Cyber Security for AI by SISA Study Guide, Section on Supply Chain Risks in AI, Page 145-148).

NEW QUESTION # 39
What is a primary step in the risk assessment model for GenAI data privacy?

- A. Limiting assessment to model outputs only.
- B. Ignoring data sources to speed up assessment.
- C. Conducting data flow mapping to identify privacy risks.
- D. Relying on vendor assurances without verification.

Answer: C

Explanation:
Risk assessment for GenAI begins with comprehensive data flow mapping, tracing inputs, processing, and outputs to pinpoint privacy vulnerabilities like unintended data leakage. This step reveals how personal information is handled, enabling classification of risks under frameworks like GDPR or ISO 27701. It facilitates the identification of controls such as anonymization or consent mechanisms. In GenAI, where models infer from vast data, this prevents re-identification attacks. Exact extract: "A primary step in GenAI data privacy risk assessment is conducting data flow mapping to identify and mitigate privacy risks." (Reference: Cyber Security for AI by SISA Study Guide, Section on Privacy Risk Models, Page 235-238).

NEW QUESTION # 40
How do ISO 42001 and ISO 27563 integrate for comprehensive AI governance?

- A. By combining AI management with privacy standards to address both operational and data protection needs.
- B. By replacing each other in different organizational contexts.
- C. By focusing ISO 42001 on privacy and ISO 27563 on management.
- D. By applying only to public sector AI systems.

Answer: A

Explanation:
The integration of ISO 42001 and ISO 27563 provides a holistic framework: 42001 for overall AI governance and risk management, complemented by 27563's privacy-specific tools, ensuring balanced, compliant AI deployments that protect data while optimizing operations. Exact extract: "ISO 42001 and ISO 27563 integrate to combine AI management with privacy standards for comprehensive governance." (Reference:
Cyber Security for AI by SISA Study Guide, Section on Integrating ISO Standards, Page 280-283).

NEW QUESTION # 41

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